

**CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT**

**PURCHASE SPECIFICATION**

**FOR**

**HARNESSES, DISTRIBUTION, OH, FULL BODY, FALL PROTECTION**

<b>DATE</b>	<b>PREPARED BY</b>	<b>ISSUANCE/REVISION</b>	<b>APPROVAL PROCESS SUPV. / MATERIALS SUPV.</b>
02/01/96	Tom Bones	Issuance	L.A. Williams / Peter G. Soosay
03/19/96	Tom Bones	Revision	L.A. Williams / Peter G. Soosay

<b>REASON FOR REVISION</b>	<b>AFFECTED PARAGRAPHS</b>

This specification, until rescinded, shall apply to each future purchase and contract for the commodity described herein.  
Retain for future reference.

**CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT  
PURCHASE SPECIFICATION  
FOR  
FULL BODY FALL PROTECTION HARNESS**

**1.0 SCOPE AND CLASSIFICATION**

1.1 SCOPE

The City of Austin requires a qualified Vendor to supply full body fall protection harnesses

1.2 CLASSIFICATION

These harnesses will be used by the City of Austin, Electric Utility Department, for Construction and Maintenance personnel

**2.0 APPLICABLE STANDARDS**

The latest revision of the following standards

OSHA 29CFR 1910 subpart D - walking/working surfaces, 1910 subpart I - personal protective equipment (fall protection systems), 1910.269, 1926.500 (subpart M)

ANSI Z359.1 - Safety Requirements for Personal Fall Arrest Systems

**3.0 DESIGN REQUIREMENTS**

The design features of the Full Body Fall Protection harness shall include, but not be limited to, the following:

- 3.1 Manufacturer's rating for employees weighing up to 350 pounds.
- 3.2 Identification tag stating the manufacturer, date of manufacture, model and serial number sewn into the inside back of the harness.
- 3.3 Maximum total weight of the assembled harness (without lanyard(s)) shall be less than three (3) pounds.
- 3.4 The chest strap shall be a Velcro closure with a warning label indicating minimum wrap. The chest strap shall be able to float vertically allowing the user to secure the strap across his or her sternum. The chest strap shall also comply with the ANSI Z359.1 head first drop test.
- 3.5 1 3/4" Forged steel buckles with minimum 4000 pound tensile strength. Buckles shall be slide-type buckles and shall be located as low as possible on the chest straps. Slide buckles shall be installed, so that no metal part of the buckle is against the employee during normal use.
- 3.6 Loops at the waist level which allow the integration of a Bashlin #60-H or #160NL leather lineman's belt. Lineman's belt shall be attachable to the harness while tools and pouches are still attached to the lineman's belt.
- 3.7 Two (2) loops on each side of the front of the harness (below the shoulder) which will accommodate the storage of unused lanyards.
- 3.8 Removable padding at shoulder rub points. This padding shall be removable without disassembling the harness.

#### 4.0 MATERIAL REQUIREMENTS

- 4.1 1 3/4" Nylon webbing on all life supporting parts with minimum 6000 pound tensile strength.
- 4.2 Sewn loop in lieu of rear dee ring with minimum 6000 pound tensile strength
- 4.3 1 3/4" Forged steel buckles with minimum 4000 pound tensile strength.
- 4.4 Assembled harness shall pass an electric flash test. The test shall consist of an assembled sample harness, subjected to an electric fault current arc to the front of the harness of 12,500 volts, 8000 amps, for 10 cycles at a distance of 12 inches from the harness. After the fault current arc test, the harness shall pass a pull test. The test shall consist of a steady pull between the back sewn loop and the leg straps. The harness shall be capable of withstanding at least 7200 pounds of pull before any part fails.

#### 5.0 OTHER REQUIREMENTS

- 5.1 Vendor shall provide Vendor Personnel at four (4) locations for three (3) sessions at each location to measure and size employees (see number of employees below) requiring harnesses within two (2) weeks of winning the contract. Scheduling of these sessions shall be done through the T&D Safety and Training Section.

The locations and approximate number of personnel are:

- a) St. Elmo Service Center - 4411 B. Meinardus Drive, Austin, TX 78744 (150 personnel)
  - b) Kramer Lane Service Center - 2412 Kramer Lane, Austin, TX 78721 (150 personnel)
  - c) Seaholm Power Plant - 800 W. Caesar Chavez St., Austin, TX 79701 (25 personnel)
  - d) Town Lake Center - 721 Barton Springs Rd. Austin, TX 78704 (25 personnel)
- 5.2 Vendor shall provide custom-sized harnesses for employees who cannot be properly fitted in standard sizes. Custom sizing shall be provided at no additional charge.
  - 5.3 Vendor shall provide all standard size harnesses within three (3) weeks after employees have been sized. Custom sizes shall be provided within thirty (30) days after employees are sized.
  - 5.4 Vendor shall provide Vendor's training personnel, within one (1) week of winning the contract, to instruct eight (8) T&D Safety and Training Employees on inspection, care, storage, donning and doffing of harnesses. This training shall be documented and shall be in detail for the Safety and Training Personnel, to be considered as certified trainers for the Manufacturer. Scheduling of these sessions shall be done through the T&D Safety and Training Section.
  - 5.5 Warranty shall provide protection against all design, material, and manufacturing defects. Documentation of this warranty shall be provided with the bid.
  - 5.6 Any harness supplied, which is not in compliance with these specifications will be returned to the Vendor and the Vendor shall replace it at no additional cost.
  - 5.7 The Vendor shall be able to provide additional harnesses within three (3) weeks of notification by the City of Austin.
  - 5.8 The Vendor shall provide, with their bid, a reference list of three (3) current customers (addresses, name(s), telephone number(s)) using the Vendor's Full Body Fall Protection Harnesses.
  - 5.9 The vendor shall provide, with their bid, certified test reports for nylon webbing tensile strength test, sewn loop tensile strength test, ANSI Z359.1 head first drop test, and the arc/fire/pull test described in section 4.4 of this specification.